

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/535,728
Source: PCR
Date Processed by STIC: 5/26/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/535,128

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 _____ Wrapped Nucleic
 Wrapped Aminos The number/text at the end of each line “wrapped” down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent “wrapping.”
- 2 _____ Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 _____ Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 _____ Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text**.
- 5 _____ Variable Length Sequence(s) _____ contain n’s or Xaa’s representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 _____ PatentIn 2.0
 “bug” A “bug” in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 _____ Skipped Sequences
 (OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where “X” is shown)
This sequence is intentionally skipped
Please also adjust the “(ii) NUMBER OF SEQUENCES:” response to **include** the skipped sequences.
- 8 _____ Skipped Sequences
 (NEW RULES) Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 _____ Use of n’s or Xaa’s
 (NEW RULES) Use of n’s and/or Xaa’s have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n’s or Xaa’s are present.
In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 _____ Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence. (see item 11 below)
- 11 _____ Use of <220> Sequence(s) _____ missing the <220> “Feature” and associated numeric identifiers and responses. Use of <220> to <223> is **MANDATORY** if <213> “Organism” response is “Artificial Sequence” or “Unknown.” Please explain source of genetic material in <220> to <223> section or use “chemically synthesized” as explanation. (See “Federal Register,” 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules
- 12 _____ PatentIn 2.0
 “bug” Please do not use “Copy to Disk” function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use “File Manager” or any other manual means to copy file to floppy disk.
- 13 _____ Misuse of n/Xaa “n” can **only** represent a single nucleotide; “Xaa” can **only** represent a single amino acid



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/535,128

DATE: 05/26/2006

TIME: 08:57:05

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\05262006\J535128.raw

3 <110> APPLICANT: Collins, et. al
 5 <120> TITLE OF INVENTION: CIS/Trans Riboregulators
 7 <130> FILE REFERENCE: 0079571-0094
 9 <140> CURRENT APPLICATION NUMBER: 10/535,128
 10 <141> CURRENT FILING DATE: 2005-05-16
 12 <160> NUMBER OF SEQ ID NOS: 59
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 11
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Artificial
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: Nuclear Acid sequence
 24 <400> SEQUENCE: 1
 25 gccgaccaug c
 28 <210> SEQ ID NO: 2
 29 <211> LENGTH: 18
 30 <212> TYPE: DNA
 31 <213> ORGANISM: Artificial
 33 <220> FEATURE:
 34 <223> OTHER INFORMATION: Nuclear Acid sequence
 36 <400> SEQUENCE: 2
 37 aggagggttt ttaccaug
 40 <210> SEQ ID NO: 3
 41 <211> LENGTH: 19
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Artificial
 45 <220> FEATURE:
 46 <223> OTHER INFORMATION: Nuclear Acid sequence
 48 <400> SEQUENCE: 3
 49 ggacgcactg accgaattc
 52 <210> SEQ ID NO: 4
 53 <211> LENGTH: 20
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Artificial
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Nuclear Acid sequence
 60 <400> SEQUENCE: 4
 61 ctacctttct cctctttaat
 64 <210> SEQ ID NO: 5
 65 <211> LENGTH: 18
 66 <212> TYPE: DNA
 67 <213> ORGANISM: Artificial

pp 1-5
 Does Not Comply
 Corrected Diskette Needed

global error

insufficient explanation - give source of

genetic material

(see item 11 on
 Error summary
 sheet)

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/535,128

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Input Set : A:\BU-0094.ST25.txt
Output Set: N:\CRF4\05262006\J535128.raw

69 <220> FEATURE:
70 <223> OTHER INFORMATION: Nuclear Acid sequence
72 <400> SEQUENCE: 5
73 ttctctagtc ctccttat 18
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 19
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Nuclear Acid sequence
84 <400> SEQUENCE: 6
85 ctacctttct cctctagga 19
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 19
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Nuclear Acid sequence
96 <400> SEQUENCE: 7
97 ctacctatct gctcttgaa 19
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 19
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Nuclear Acid sequence
108 <400> SEQUENCE: 8
109 ctaccattca cctcttgga 19
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 16
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Nuclear Acid sequence
120 <400> SEQUENCE: 9
121 ctaccattca cctgga 16
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 7
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Nuclear Acid sequence
132 <400> SEQUENCE: 10
133 tttgggt 7
136 <210> SEQ ID NO: 11
137 <211> LENGTH: 15
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial
141 <220> FEATURE:

RAW SEQUENCE LISTING

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Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\05262006\J535128.raw

142 <223> OTHER INFORMATION: Nuclear Acid sequence
144 <400> SEQUENCE: 11
145 attaaagagg agaaa 15
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 42
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Nuclear Acid sequence
156 <400> SEQUENCE: 12
157 ggagcactga ccgaattcat taaagaggag aaaggtacca tg 42
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 51
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Nuclear Acid sequence
168 <400> SEQUENCE: 13
169 ctacctttct cctctttaat tttgggtatt aaagaggaga aaggtaccat g 51
172 <210> SEQ ID NO: 14
173 <211> LENGTH: 47
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial
177 <220> FEATURE:
178 <223> OTHER INFORMATION: Nuclear Acid sequence
180 <400> SEQUENCE: 14
181 ctctagtcct ccttattttg ggtattaaag aggagaaagg taccatg 47
184 <210> SEQ ID NO: 15
185 <211> LENGTH: 50
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial
189 <220> FEATURE:
190 <223> OTHER INFORMATION: Nuclear Acid sequence
192 <400> SEQUENCE: 15
193 ctacctttct cctctaggat ttgggtatta aagaggagaa aggtaccatg 50
196 <210> SEQ ID NO: 16
197 <211> LENGTH: 50
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial
201 <220> FEATURE:
202 <223> OTHER INFORMATION: Nuclear Acid sequence
204 <400> SEQUENCE: 16
205 ctacctatct gctcttgaat ttgggtatta aagaggagaa aggtaccatg 50
208 <210> SEQ ID NO: 17
209 <211> LENGTH: 50
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial
213 <220> FEATURE:
214 <223> OTHER INFORMATION: Nuclear Acid sequence

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/535,128

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TIME: 08:57:05

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\05262006\J535128.raw

216 <400> SEQUENCE: 17
 217 ctaccattca cctcttggat ttgggtatta aagaggagaa aggtaccatg 50
 220 <210> SEQ ID NO: 18
 221 <211> LENGTH: 50
 222 <212> TYPE: DNA
 223 <213> ORGANISM: Artificial
 225 <220> FEATURE:
 226 <223> OTHER INFORMATION: Nuclear Acid sequence
 228 <400> SEQUENCE: 18
 229 ctaccattca cctcttggat ttgggtatta aagaggagaa aggtaccatg 50
 232 <210> SEQ ID NO: 19
 233 <211> LENGTH: 70
 234 <212> TYPE: DNA
 235 <213> ORGANISM: Artificial
 237 <220> FEATURE:
 238 <223> OTHER INFORMATION: Nuclear Acid sequence
 240 <400> SEQUENCE: 19
 241 acacccaaat taaagaggag aaaggtagtg gtggttaatg aaaattaact tactactacc 60
 243 ttttcttaga 70
 246 <210> SEQ ID NO: 20
 247 <211> LENGTH: 62
 248 <212> TYPE: DNA
 249 <213> ORGANISM: Artificial
 251 <220> FEATURE:
 252 <223> OTHER INFORMATION: Nuclear Acid sequence
 254 <400> SEQUENCE: 20
 255 acgccccaat aaggaggata gagtgggtgg taatgaaaat taacttacta cttagtttta 60
 257 ga 62
 260 <210> SEQ ID NO: 21
 261 <211> LENGTH: 69
 262 <212> TYPE: DNA
 263 <213> ORGANISM: Artificial
 265 <220> FEATURE:
 266 <223> OTHER INFORMATION: Nuclear Acid sequence
 268 <400> SEQUENCE: 21
 269 acacccaaat cctagggaga atggtagtgg tgggtaatga aaattaactt actactactt 60
 271 tttcataga 69
 274 <210> SEQ ID NO: 22
 275 <211> LENGTH: 67
 276 <212> TYPE: DNA
 277 <213> ORGANISM: Artificial
 279 <220> FEATURE:
 280 <223> OTHER INFORMATION: Nuclear Acid sequence
 282 <400> SEQUENCE: 22
 283 acacccaaat tatgagcaga ttggtagtgg tgggtaatga aaattaactt actactactt 60
 285 tcttaga 67
 288 <210> SEQ ID NO: 23
 289 <211> LENGTH: 71
 290 <212> TYPE: DNA

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DATE: 05/26/2006

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TIME: 08:57:05

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\05262006\J535128.raw

291 <213> ORGANISM: Artificial
293 <220> FEATURE:
294 <223> OTHER INFORMATION: Nuclear Acid sequence
296 <400> SEQUENCE: 23
297 acccaaatcc aggaggtgat tggtagtggt ggttaatgaa aattaactta ctactaccat 60
299 atatctctag a 71
302 <210> SEQ ID NO: 24
303 <211> LENGTH: 71
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial
307 <220> FEATURE:
308 <223> OTHER INFORMATION: Nuclear Acid sequence
310 <400> SEQUENCE: 24
311 acccaaatcc aggaggtgaa tggtagtggt ggttaatgaa aattaactta ctactaccat 60
313 atatctctag a 71
316 <210> SEQ ID NO: 25
317 <211> LENGTH: 71
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Nuclear Acid sequence
324 <400> SEQUENCE: 25
325 acccaaatcc aagaggtgat tggtagtggt ggttaatgaa aattaactta ctactaccat 60
327 atatctctag a 71
330 <210> SEQ ID NO: 26
331 <211> LENGTH: 76
332 <212> TYPE: DNA
333 <213> ORGANISM: Artificial
335 <220> FEATURE:
336 <223> OTHER INFORMATION: Nuclear Acid sequence
338 <400> SEQUENCE: 26
339 acccaaatcc aaagaggtga atggtaagtg ggtgggtaat gaaaattaac ttactactac 60
341 catatattct ctaaga 76
344 <210> SEQ ID NO: 27
345 <211> LENGTH: 71
346 <212> TYPE: DNA
347 <213> ORGANISM: Artificial
349 <220> FEATURE:
350 <223> OTHER INFORMATION: Nuclear Acid sequence
352 <400> SEQUENCE: 27
353 acccaaatcc aggaggtgat tggtagtggt ggttaatgaa aattaactta ctaaaatcgg 60
355 acatctctag a 71
358 <210> SEQ ID NO: 28
359 <211> LENGTH: 75
360 <212> TYPE: DNA
361 <213> ORGANISM: Artificial
363 <220> FEATURE:
364 <223> OTHER INFORMATION: Nuclear Acid sequence
366 <400> SEQUENCE: 28

Please correct this
error in subsequent
sequences, too.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/535,128

DATE: 05/26/2006

TIME: 08:57:06

Input Set : A:\BU-0094.ST25.txt

Output Set: N:\CRF4\05262006\J535128.raw